

# Converting Colors

XYZ(42.1866, 19.9362, 83.8292)

Have a look what the booklet for  
XYZ(42.1866, 19.9362, 83.8292)  
contains.

<b>XYZ(42.3065, 19.9929, 84.0673)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(42.3065, 19.9929,  
84.0673)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D200F0
RGB	210, 0, 240
RGB Percent	82%, 0%, 94%
CMY	0.1765, 0.9999, 0.0588
CMYK	0.12, 1.00, 0.00, 0.06
HSL	292°, 100%, 47%
HSV	292°, 100%, 94%
XYZ	42.3065, 19.9929, 84.0673
YIQ	90.1500, 48.1200, 119.1600

# Conversions

## Conversions Part 2

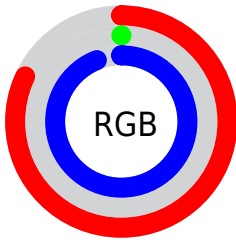
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	210, 0, 240
Decimal	13762800
CIE <sub>Lab</sub>	51.83, 89.40, -66.53
CIE <sub>LCh</sub>	52, 111.436, 323.342
Yxy	19.9929, 0.2890, 0.1366
Android (android.graphics.Color)	4291952880 (0xFFD200F0)
YUV	90.1500, 73.8760, 105.1084
Hunter-Lab	44.7134, 90.6429, -80.1739

# Details

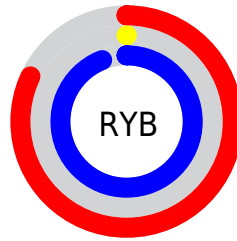
The XYZ color **42.3065, 19.9929, 84.0673** is a light color, and the websafe version is hex **CC33FF**. The color can be described as light saturated magenta. A complement of this color would be **31.6964, 62.5968, 10.4125**, and the grayscale version is **9.5873, 10.0866, 10.9843**.

A 20% lighter version of the original color is **63.4729, 36.8457, 98.3743**, and **21.1249, 9.9029, 45.5978** is the 20% darker color. If you saturate the color by 10%, you get **42.3063, 19.9928, 84.0676**, and if you desaturate by 10%, it is **43.4966, 21.0920, 84.2170**.

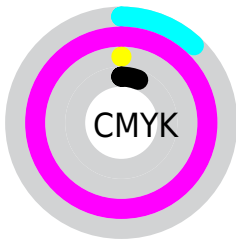
# Distribution



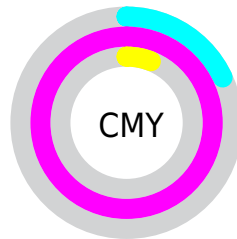
- Red (82%)
- Green (0%)
- Blue (94%)



- Red (82%)
- Yellow (0%)
- Blue (94%)



- Cyan (12%)
- Magenta (100%)
- Yellow (0%)
- Black (6%)




- Cyan (18%)
- Magenta (100%)
- Yellow (6%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.3065, 19.9929, 84.0673 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 42.3065, 19.9929, 84.0673 by changing the saturation by 10% instead.




 42.3065, 19.9929,  
84.0673

 42.3065, 19.9929,  
84.0673


346.7220,  
251.8767, 528.6006


 29.5335, 12.3899,  
62.5253


 77.9255, 43.4053,  
140.9319


 19.6311, 7.0098,  
45.0188


 101.5023, 59.9834,  
177.0915

 12.2339, 3.4682,  
31.1291


 129.4111, 80.3221,  
218.9608

 6.9765, 1.3808,  
20.4379

 162.0172,  
104.8056, 266.9583

 3.4936, 0.2025,  
12.5265

 199.6860,  
133.8185, 321.5024

 1.4198, 0.0000,  
6.9765

 242.7828,

 0.2703, 0.0000,

167.7450, 383.0118

3.3692

291.6730,  
206.9696, 451.9051

■ 0.0000, 0.0000,  
1.2861

■ 0.0000, 0.0000,  
0.0503

■ 42.3065, 19.9929,  
84.0673

■ 42.3065, 19.9929,  
84.0673

■ 42.3063, 19.9928,  
84.0676

■ 43.4966, 21.0920,  
84.2170

■ 45.1057, 23.0064,  
84.5017

■ 47.2613, 25.9895,  
84.9639

■ 50.0382, 30.1913,  
85.6286

■ 53.4997, 35.7379,  
86.5168

■ 57.7009, 42.7394,  
87.6468

■ 62.6912, 51.2947,  
89.0351

■ 68.5158, 61.4939,  
90.6967

■ 75.2163, 73.4202,  
92.6456

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



28.9774, 19.9929, 143.4710



42.3065, 19.9929, 84.0673



49.7863, 19.9929, 29.8107

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



42.3065, 19.9929, 84.0673



21.6350, 19.9929, 0.0000



5.2197, 19.9929, 56.9051

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



42.3065, 19.9929, 84.0673



31.6964, 62.5968, 10.4125

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



4.5601, 19.9929, 15.3214



42.3065, 19.9929, 84.0673



11.6282, 19.9929, 0.0000

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



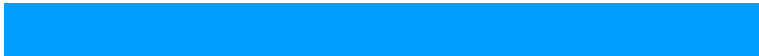
42.3065, 19.9929, 84.0673



35.1516, 19.9929, 0.0000



6.3583, 19.9929, 1.7440



8.7580, 19.9929, 119.5727



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



42.3065, 19.9929, 84.0673



48.9550, 19.9929, 10.3351



6.3583, 19.9929, 1.7440



4.7320, 19.9929, 39.5177

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



42.3074, 19.9937, 84.0677



71.8789, 58.7513, 102.1594



16.2456, 7.3256, 82.9961



14.8431, 11.6401, 21.7144



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



42.3074, 19.9937, 84.0677



48.5196, 22.9276, 96.4760



41.6038, 20.7931, 31.5303



16.2485, 15.9253, 19.9391



23.2372, 10.9846, 46.0234



1.9871, 0.9416, 3.8312



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



36.1702, 18.6197, 2.9173



41.4990, 21.3636, 3.2940



32.9226, 63.0254, 19.6657



15.8532, 15.7910, 16.7831



19.8256, 10.2027, 1.7324



1.6749, 0.8590, 0.2789



# Previews

## White Background



This preview shows how the XYZ color 42.3065, 19.9929, 84.0673 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

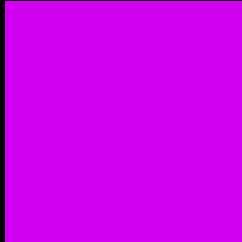
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.3065, 19.9929, 84.0673 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.3065, 19.9929, 84.0673**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.3065, 19.9929, 84.0673.



This preview shows how white text looks on a background with the XYZ color 42.3065, 19.9929,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

42.3065, 19.9929, 84.0673

### Protanopia

24.8874, 20.8947, 97.3291

### Deuteranopia

21.3168, 20.6697, 74.8176



## Tritanopia

28.0899, 20.1515, 14.7210

# Trichromacy



## Original Color

42.3065, 19.9929, 84.0673



## Protanomaly

22.8897, 13.7464, 91.8894



## Deuteranomaly

20.3467, 13.1909, 77.0750



## Tritanomaly

30.8365, 17.6408, 31.4855

# Monochromacy



## Original Color

42.3065, 19.9929, 84.0673



## Achromatopsia

9.7181, 10.2242, 11.1341



## Achromatomaly

16.4055, 10.0389, 27.8611

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.3065, 19.9929, 84.0673 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(210, 0, 240)` looks like.

```
.text, #text, p{  
    color:rgb(210, 0, 240)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(210, 0, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(210, 0, 240) }
```

## Border

The CSS property to change the border of an element to XYZ 42.3065, 19.9929, 84.0673 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(210, 0, 240) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(210, 0, 240) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(210, 0, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(210, 0, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(210, 0, 240);  
box-shadow:4px 4px 4px 4px rgb(210, 0,  
240) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.3065, 19.9929, 84.0673 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(210, 0, 240) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(210, 0,  
240) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor